

AUTHOR: Mamikonyants, L. G., Candidate of
Technical Sciences SOV/105-58-8-11/21

TITLE: Currents and Torques in Induction Motors and Alternators
at Variable Speeds (Toki i momenty asinkhronnykh i sinkhronnykh
mashin pri izmenenii skorosti ikh vrashcheniya)

PERIODICAL: Elektrichestvo, 1958, Nr 8, pp. 54 - 64 (USSR)

ABSTRACT: General formulae for the amperages and torques in induction
and synchronous machines are given, when the motion of the
rotor is arbitrary but known. It is shown, that the integrals
contained in these functions can be found with the help of well
known tables for special functions in the case of uniformly
accelerated speed (Ref 18). The formulae given: (1), (2), and
(6) permit to determine the amperages and torques in arbitrarily
set and in transition processes at zero-and not-zero initial
conditions. The equation governing the speed of the rotor and
the variation of the exciting voltage, however, must be known.
If the speed is constant, the problem is relatively easily
solved in its general form, as the integrals occurring

Card 1/4

AUTHOR:

Mamikonyants, L. G., Candidate of Technical Sciences

105-~~50-30~~/31

TITLE:

Determination of the Reactive Power of a Synchronous Machine
During Slip Operation (Opredeleniye reaktivnoy moshchnosti
sinkhronnyy mashiny pri asinkhronnom rezhime)

PERIODICAL:

Elektrichestvo, 1958, Nr 3, pp. 35 - 36 (USSR)

ABSTRACT:

A synchronous machine with salient poles and direct- and quadrature-axis compensation windings at the rotor is investigated here. It operates with the circuit of infinite output in the case of adjusted asynchronous operation mode and existing unchangeable excitation. It is assumed that the machine is idealized (Refs 1 and 2). The effective resistance of the stator circle is neglected. The reactive power, if it is supplied to the net, is considered positive. The slip is positive in the case of a below synchronous velocity of the rotor. The formulae derived here are sufficiently accurate for the determination of the reactive power of the synchronous machines in practice. The parameters of these machines are only to a small extent altered in the case of a change of the slip. The computation data and the experi-

Card 1/2

MALIKONYANTS, L.G., Doc Tech Sci--(disc) "Study of asynchronous ~~per-~~
~~titles~~
performance of synchronous engines." Mos, 1950. 43 pp (Min of Higher Education
USSR. Mos Order of Lenin Power Engineering Inst), 200 copies. Bibli-
ography: pp 1-43 (32 titles) (kl, 44-58, 122)

MAMIKONYANTS, L. G., AZAR'YEV, D. E., VENIKOV, V. A. and SIROMYATNIKOV, I. A.

Increase of Reliability of Operation of Power Systems and Long Distance
Power Transmission

paper submitted for presentation at the Intl. Conf. on Large Electric Systems (CIGRE)
17th Biennial Session, Paris, France, 4-14 June 1958.

Electra, No. 30, Nov. 1957, periodical news letter issued by the CIGRE, Paris France.

KOSTENKO, M.P., akademik; ZAVALISHIN, D.A., prof.; GLEBOV, I.A., dots.;
MEL'NIKOV, N.A., dots.; KAZOVSKIY, Ye.Ya., kand.tekhn.nauk;
FAZYLOV, Eh.F., doktor tekhn.nauk, prof.; GORODSKIY, D.A., doktor
tekhn.nauk, prof.; KHOLOMSKIY, V.G., doktor tekhn.nauk, prof.;
CHIZHENKO, I.M., kand.tekhn.nauk; MAMIKONYANTS, L.G., kand.tekhn.nauk;
TSUKERNIK, L.V., kand.tekhn.nauk.

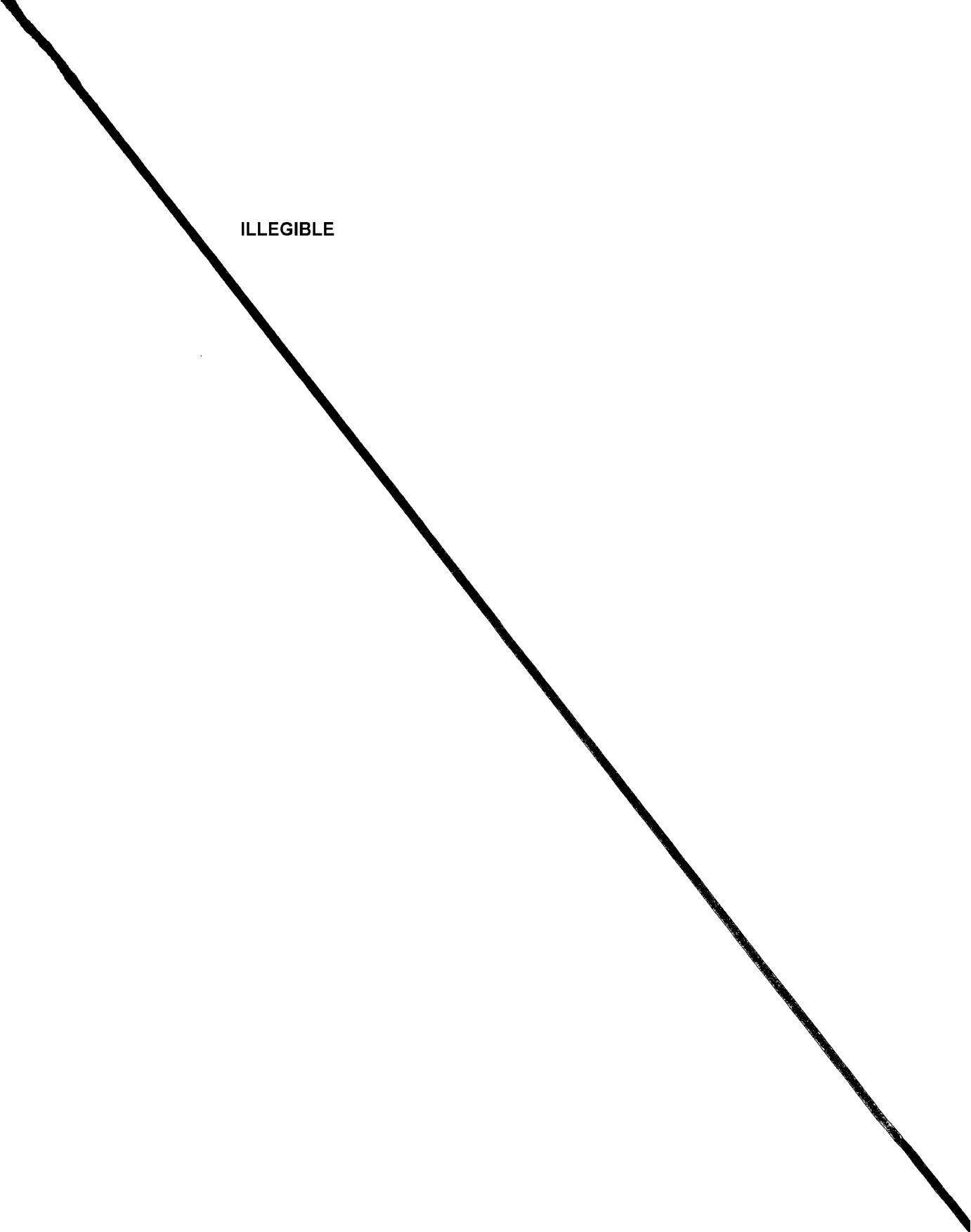
Regulating the reactive power with the aid of controlled valves.
Vest.elektrprom. 28 no.12:65-71 D '57. (MIRA 10:12)

1. Institut elektromekhaniki AN SSSR (for Kostenko, Zavalishin,
Glebov).
2. Vsesoyuznyy zaochnyy energeticheskiy institut (for
Mel'nikov).
3. Zavod "Elektrosila" (for Kazovskiy).
4. Institut
energetiki AN UzSSR (for Fazylov).
5. Nauchno-issledovatel'skiy
institut elektrotekhnicheskoy promyshlennosti (for Gorodskiy).
6. Kiyevskiy politekhnicheskiy institut (for Kholmskiy, Chizhenko).
7. TSentral'naya nauchno-issledovatel'skaya elektrotekhnicheskaya
laboratoriya Ministerstva elektrostantsiy (for Mamikonyants).
8. AN SSSR (for TSukernik).

(Electric generators)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

ILLEGIBLE



MAMIKONYANTS, L.G., kandidat tekhnicheskikh nauk.

Measuring supertransient reactances of synchronous machines by
stationary methods. Elektrichestvo no.2:62-64 F '56. (MLRA 9:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut elektrotehniki
Ministerstva elektrostantsii.
(Electric machinery, Synchronous)

MAMIKONYANTS, L., TSAREV, M.; GADZEVICH, V.I., inzh., red.; VORONIN, K.P., tekhn. red.

[Results of operating relay-protection and electric automatic control equipment in power systems of the Ministry of Power Stations during 1955] Itogi ekspluatatsii releinoi zashchity i elektroavtomatiki v energosistemakh Ministerstva elektrostantsii za 1955 g. Moskva, Gos. energ. izd-vo. 1956. 14 p. (Moscow. TSentral'naia nauchno-issledovatel'skaia elekrotekhnicheskia laboratoriia. Informatsionnye materialy no.19).
(MIRA ll:?)

1. Zamestitel' direktora po nauchnoy chasti, glavnyy inzhener TSentral'noy nauchno-issledovatel'skoy elekrotekhnicheskoy laboratoriis Ministerstva elektrostantsiy SSSR (for Mamikonyants) 2. Zaveduyushchiy laboratoriyeley releynoy zashchity TSentral'noy nauchno-issledovatel'skoy elekrotekhnicheskoy laboratoriis Ministerstva elektrostantsiy SSSR (for Tsarev).

(Electric relays) (Automatic control) (Electric power distribution)

Elektrichestvo, 8, 27-33, Ag 1955

AID P - 2939

Card 2/2 Pub. 27 - 4/15

the costs of automatic control arrangements. Future studies, according to the author, should concentrate upon synchronization processes of synchronous machinery, on automatic reclosure without control of synchronism, and on asynchronous starting of synchronous generators. Thirty four references (1931-1955) (27 Soviet), 3 diagrams.

Institution : Central Scientific Research Electrical Engineering Laboratory (TsNiEL) of the Ministry of Electric Power Stations, USSR.

Submitted : My 10, 1955

AID P - 2939

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 4/15

Author : Mamikonyants, L. G., Kand. of Tech. Sci.

Title : Utilization of asynchronous conditions of operation of generators to raise the reliability of operation of power equipment

Periodical : Elektrichestvo, 8, 27-33, Ag 1955

Abstract : On the initiative of the Technical Administration of the Ministry of Electric Power Stations, after the war power systems and planning organizations conducted a series of studies and tests to increase the security of operation of electric equipment working together with asynchronous machinery. Theoretical and experimental studies of asynchronous conditions of work of synchronous machinery now permit introducing such conditions into the power systems in order to raise their security of operation and simplify and reduce

MAMIKONYANTS, L. G.

Subject : USSR/Electricity

AID P - 598

Card 1/1 Pub. 27 - 2/35

Author : Mamikonyants, L. G., Kand. of Tech. Sci.

Title : Electromagnetic torques caused by automatic synchronization of synchronous generators

Periodical : Elektrichestvo, 8, 9-15, Ag 1954

Abstract : The author studies the occurrence of mechanical forces at the parallel starting of synchronous generators and condensers with and without damper windings. The effect of automatic synchronization is compared with those caused by short-circuit currents and by switching of excited generators. The author concludes that the mechanical moments originated by the automatic synchronization are not dangerous for generators. 5 drawings, 7 Russian references (1933-1953).

Institution : TsNIEL MES SSSR: (Central Scientific Electric Laboratory of the Ministry of Electric Power Plants of the U.S.S.R.)

Submitted : Ap 21, 1954

Elektrichestvo, 7, 10-15, J1 1954

AID P - 440

Card 2/2 Pub. 27 - 3/34

attribute them to the presence of a great difference in
the time constants of the rotor windings. Fourteen
Russian references (1930-1953) and two graphs.

Institution : None

Submitted : March 23, 1954

MAMIKONYANTS, L. G.

AID P - 440

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 3/34

Author : Mamikonyants, L. G., Kand. of Tech. Sci., Moscow

Title : On Transient Phenomena in Synchronous Generators with Damper Rotor Windings

Periodical : Elektrichestvo, 7, 10-15, J1 1954

Abstract : The physical nature of transient phenomena in synchronous generators is analyzed on the basis of the theory of transient phenomena occurring in two magnetically linked windings. Existing presentations concerning the super-transient and transient components of exponentially attenuating currents or voltages are defined more accurately. The super-transient component emerges because of change of leakage fluxes between damper and excitation windings, while the transient component is created by the change in the general flux linked with the windings. The author states the necessity of correcting the widespread and basically inaccurate explanations of causes of emergence of these components which

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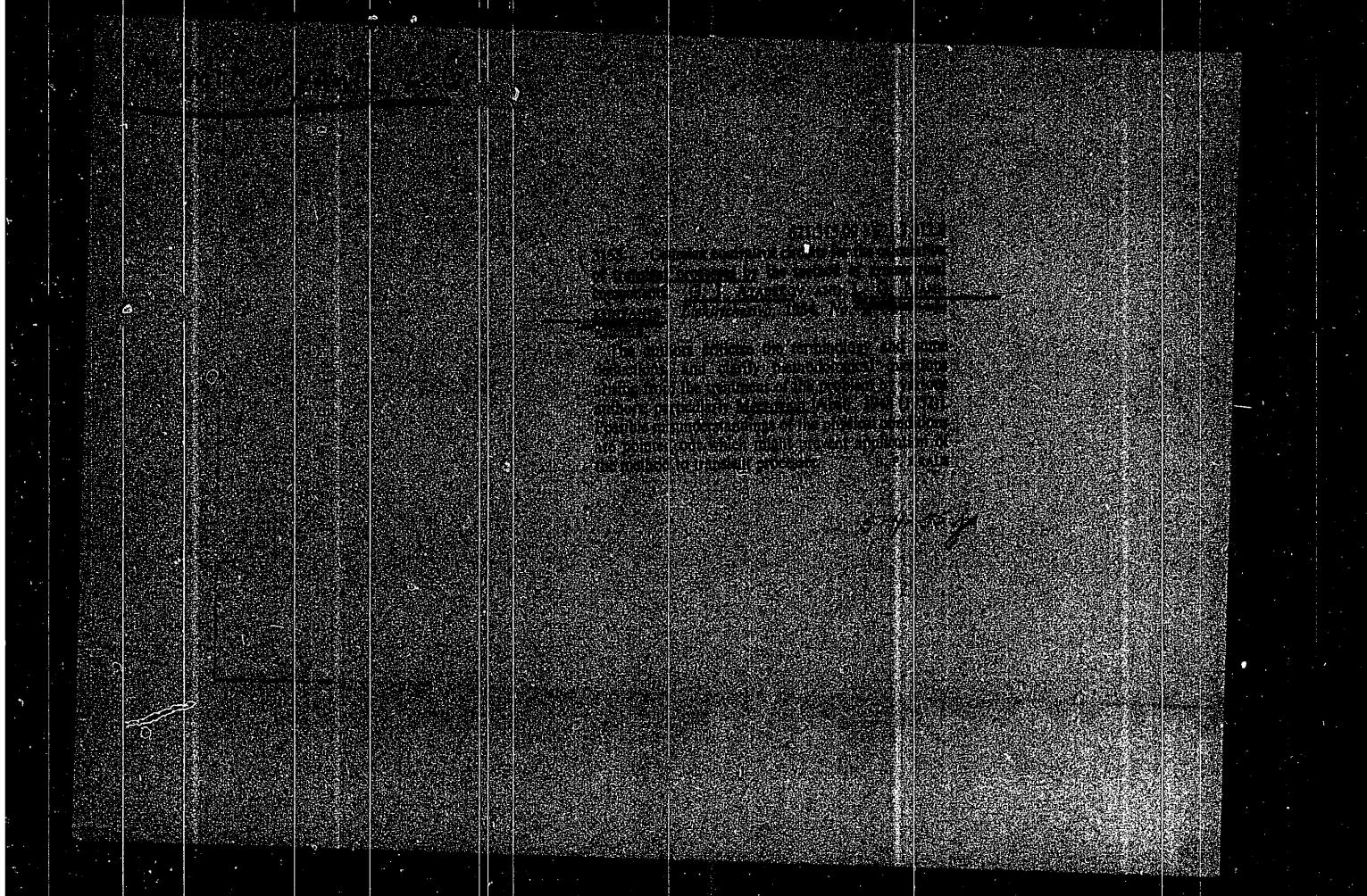
MAMIKONANTS, L. G.

MEYEROVICH, E.A., professor.

Remarks on G.I. Atabekov and L.G. Mamikonants article "Complex substitution schemes for calculating transitional processes by the method of symmetrical components." Elektrichestvo no.2:86-87 F '54. (MIRA 7:2)

(Electric circuits) (Atabekov, G.I.)
(Mamikonants, L.G.)

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MANIKONYANTS, I. G.

Dynamos - Testing

Preventitive testing of synchronous generators. Elek. sta. 23 no. 7, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, November 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKONYANTS, L. G., SYROMYANTNIKOV, T. A., FAYNSHTEYN, E. G.

DYNAMOS

Asymmetric operation of generators. Elektrichestvo no. 2;, 1952. Kandidat Tekhn. Nauk.

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED

USSR/Electricity - Generators

Feb 52

"Discussion of Unbalanced Operating Conditions for Generators," I. A. Syromyatnikov, L. G. Mamikonyants, E. G. Faynshteyn, Candidates Tech Sci

"Elektrichesstvo" No 2, pp 76-79

All 3 writers take F. K. Arkhangel'skiy to task for attempting to defend the "Elektrosila" Plant directive stating that the max permissible unbalance for hydroelec generators is 5%. Tests made by the Tbilisi Sci Res Inst of Structures and Hydroelec

USSR/Electricity - Generators

(Contd)

208733
Feb 52

Power clearly showed that greater unbalances could be permitted. Claims that Arkhangel'skiy, to support his opinion, referred to a test made on a defective generator produced by the "Elektrosila" Plant.

208733

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MAMIKONYANTS, L. G.

"Concerning A. M. Zalesskiy's Article, 'Preventive Testing of Insulation in Electrical Machines'."

Elektrichestvo, No 2, 1948.

Cand. Mech. Sci., Cen. Sci. Res. Lab., Ministry of Elec. Sta. USSR, -c1948-.

MAMIKONYAN'S, Grazdan Mushegovich; USHAKOVA, A.F., ved. red.;
VOROB'YEVA, L.V., tekhn. red.

[Fire extinction of powerful gas, gas and oil, and oil free-flowing wells with water streams and by means of explosives]
Tushenie pozharov moshchnykh gazovykh, gazoneftianykh i nef-tianykh fontanov vodianymi struiami i pri pomoshchi vzryva za-riada VV. Moskva, Gostoptekhizdat, 1962. 70 p. (MIRA 15:9)
(Oil fields—Fires and fire prevention)

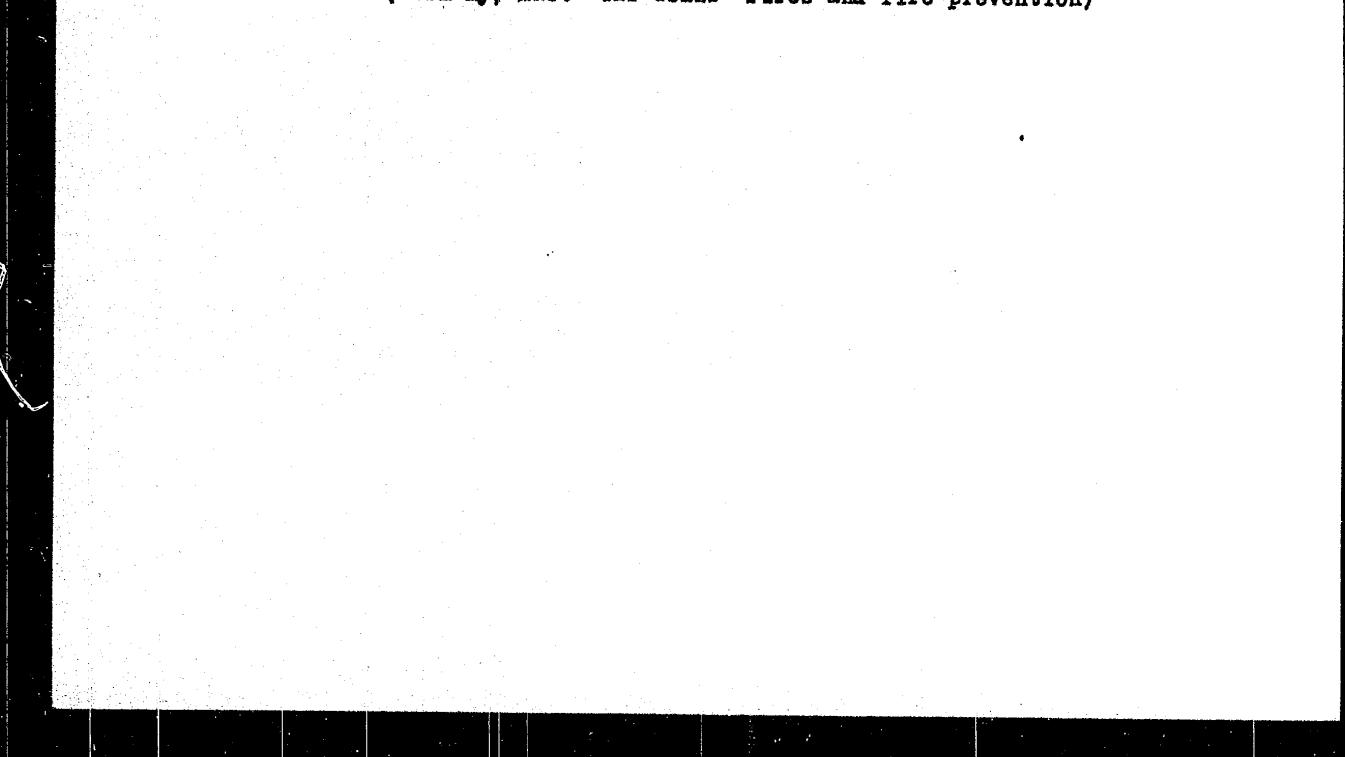
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~~MAMIKONYANTS, G., insh.~~

Extinction of a gasser. Posh.delo 6 no.10:20 0 '60.

(MIRA 13:10)

(Germany, East--Gas wells--Fires and fire prevention)



MAMIKONYANTS, G., inzh.

Where to store liquefied gases. Pozh.delo 6 no.8:30
Ag '60. (MIRA 13:8)
(Liquefied petroleum gas--Storage)

Mamikonyants, G.
MAMIKONYANTS, G., inzh.

Extinguishing a burning powerful gas gusher. Pozh. delo 4 no.2:
13-14 F '58. (MIRA 11:1)
(Petroleum industry--Fires and fire prevention)

MAMIKONYAN, V. M.

"Treatment of Trophic Ulcers of the Lower Extremities by Interference with the Peripheral Nerves,"

SO:, Khirurgiya, No. 3, 1948.

Mbr., Orthopedic Surgical Dept., Tblisi 1st Hosp. Restorative Surgery, -c1948-.

MAMIKONYAN, V.

Manufactured according to the models exhibited at the pavillion of consumers' goods. Prom.Arm. 5 no.6:41-43 Je '62. (MIRA 15:7)

1. Direktor Armyanskogo filiala postoyannogo pavil'ona Glavnogo upravleniya po mezhrespublikanskim postavkam tovarov narodnogo potrebleniya.

(Armenia--Manufactures)

Radioactive Isotopes (Cont.)

SOV/5486

Karpov, V.L. Prospects of Industrial Application of Radiation Chemistry in the USSR and Abroad

42

Zhernov, V.S., and S.V. Mamikonyan. New Industrial Checking and Measuring Apparatus for Operation With Radioactive Isotopes and Radiation

49

INSTRUMENTS WITH RADIOACTIVE RADIATION SOURCES

Lade, G.I., K.K. Shpor, and V.A. Yanushkovskiy. Instruments With Radioactive Radiation Sources Manufactured at the Tallin Experimental KIP [Checking and Measuring Instrument] Plant

69

Gol'din, M.L., A.P. Krivchikov, and M.S. Gorodetskaya. Instruments With Radioactive Radiation Sources Manufactured at the Khar'kov KIP Plant

75

Sul'kin, A.G. [Present] State and Prospects of the Construction and Manufacture of γ -Apparatus at the "Mosrentgen" Plant

80

Atopkina, M.S., V.A. Kiryukhin, I.A. Prager, A.D. Tumil'kan, V.G. Chaykovskiy, and V.A. Yanushkovskiy. Low-Voltage Gas-Discharging Counters in the Radioactive Pickups of Apparatus for Technological Checking of Production

88

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Radioactive Isotopes (Cont.)

SOV/5486

PURPOSE: The book is intended for technical personnel concerned with problems of application of radioactive isotopes and nuclear radiation in all branches of the Soviet economy.

COVERAGE: An All-Union Conference on problems in the introduction of radioactive isotopes and nuclear radiation into the national economy of the Soviet Union took place in Riga on 12-16 April 1960. The Conference was sponsored by: the Gosudarstvenny nauchno-tehnicheskiy komitet Soveta Ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers, USSR); Glavnaya upravleniya po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Main Administration for the Utilization of Atomic Energy of the Council of Ministers, USSR); Academy of Sciences, USSR; Gosplan USSR; Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers, USSR, for Automation and Machine Building) and the Council of Ministers of the Latvian SSR. The transactions of this Conference are published in four volumes. Volume I contains articles on the following subjects: the general problems of the Conference topics; the state and prospects of development of radiation chemistry; and results and prospects of applying radioactive isotopes and nuclear radiation in the petroleum refining and chemical industries. Problems of designing and manufacturing instruments which contain sources of radioactive radiation and are used for checking and automation of technological processes are examined, along with problems of accident prevention in their use. No personalities are mentioned. References accompany some of the articles.

Card 2/12

MAMIKONYAN, S.V.

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PHASE I BOOK EXPLOITATION SOV/5486

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniye v narodnoye khozyaystvo SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy soveshchaniya v 4 tomakh. t. 1: Obshchiye voprosy primeneniya izotopov, pribory s istochnikami radioaktivnykh izlucheni, radiatsionnaya khimiya, khimicheskaya i neftepererabatyvayushchaya promyshlennost' (Radioactive Isotopes and Nuclear Radiations in the National Economy of the USSR; Transactions of the Symposium in 4 Volumes, v. 1: General Problems in the Utilization of Isotopes; Instruments With Sources of Radioactive Radiation; Radiation Chemistry; the Chemical and Petroleum-Refining Industry) Moscow, Gostoptekhizdat, 1961. 340 p. 4,140 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tehnicheskiy komitet Soveta Ministrov SSSR, and Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii.

Ed. (Title page): N.A. Petrov, L.I. Petrenko and P.S. Savitskiy; Eds. of this Vol.: L.I. Petrenko, P.S. Savitskiy, V.I. Sinitsev, Ya. M. Kolotyrkin, N.P. Syrkin and R.F. Romm; Executive Eds.: Ye. S. Levina and B. F. Titskaya; Tech. Ed.: E.A. Mukhina.

Card 1/12

PHASE I BOOK EXPLOITATION SOV/5507

Zhernov, V.S., and S.V. Mamikonyan

Novyye radiometricheskiye i spektrometricheskiye pribory (New Radiometric and Spectrometric Instruments) Moscow, Atomizdat, 1960. 20 p. 3,000 copies printed.

Ed.: G.M. Pchelintseva; Tech. Ed.: N.A. Vlasova.

PURPOSE: This booklet is intended for technical personnel concerned with radioactive isotopes and radiation.

COVERAGE: The booklet presents six measuring instruments described as new developments which make it possible to solve a number of problems of radiometry and spectrometry. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Foreword

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Card 1/2

MAMIKONYAN, R.S., kand.med.nauk; ELCHAKYAN, M.

Case of serious allergic reaction following use of cortisone. Sov.
med. 25 no.5:147 My '62. (MIRA 15:8)

1. Iz fakul'tetskoy terapeuticheskoy kliniki Yerevanskogo meditsinskogo instituta.

(CORTISONE) (ALLERGY)

MNATSAKANOV, T.S., prof., zaasluzhennyy deyatel' nauki; MAMIKONYAN, R.S.,
kand.med.nauk

Clinical and pathogenic aspects of associated and transitory forms
of Bright's disease. Sov.med. 25 no.2:14-24 F '61.

(MIRA 14:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki Yerevanskogo meditsinskogo instituta (direktor - dotsent S.N.Galstyan).

(BRIGHT'S DISEASE)

MNATSAKANOV, T. S., prof., zasluzhennyy deyatel' nauki; MAMIKONYAN, R. S.,
kand. med. nauk; TUMANYAN, A. M. (Yerevan)

Use of a new Soviet preparation fubromegan in the treatment of
peptic ulcer. Klin. med. no.11:93-96 '61. (MIRA 14:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. T. S. Mnatsakanov)
Yerevanskogo meditsinskogo instituta.

(PEPTIC ULCER) (AUTONOMIC DRUGS)

MNATSAKANOV, T.S., prof., zasluzhennyj deyatel' nauki; MAMIKONYAN, R.S.
kand.med.nauk

Therapeutic effectiveness of a new preparation from a dry extract
of Leontice in gastric diseases with low acidity. Terap.arkh. 31
no.8:64-67 Ag '59. (MIRA 12:11)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. T.S. Mnatsakanov)
Yerevanskogo meditsinskogo instituta.
(STOMACH diseases)
(PLANTS extracts)

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MAMIKONYAN, R. S.

MAMIKONYAN, R. S. -- "The Permeability of the Capillaries and the Functional State of the Kidneys under Pathological Conditions." Yerevan, 1955.
(Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Litopis', No. 7, 1956.

MAMIKONYAN, M.V.

Effect of the false heartwood on the growth of beech. Izv. AN Arm.
SSR. Biol. nauki 15 no.1:69-75 Ja '62. (MIHA 15:2)

1. Institut stroymaterialov i sooruzheniy Gosstroya Armeniiskoy SSR.
(ARMENIA-BEECH)

ARZUMANIAN, G.A.; MAMIKONYAN, M.V.

Physicomechanical properties of the wood of beech growing in Armenia. Dokl. AN Arm. SSR 33 no.3:119-127 '61.

(MIRA 14:12)

1. Institut stroitel'nykh materialov i sooruzheniy Gosstroya Armyanskoy SSR. Predstavлено akademikom AN Armyanskoy SSR A.G. Nazarovym.

(Armenia--Beech)
(Wood--Testing)

AYRAPETYAN, V.G., doktor veterinarnykh nauk; GAZARYAN, V.S., doktor veterinarnykh nauk; GRIGORYAN, G.A., kand.veterinarnykh nauk; MAMIKONYAN, M.M., kand.veterinarnykh nauk

Basic work results of the Institute of Animal Husbandry and Veterinary Medicine in the control of the communicable and infestation diseases of farm animals in Armenia. Trudy Arm. nauch.-issl. inst.zhiv. i vet. 4:211-231 '60. (MIRA 16:5)
(Armenia--Veterinary medicine)

MAMIKONYAN, M. M
~~MAMIKONYAN, M. M.~~

"Theileriasis of Cattle in the Armenian SSR."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Armenian Scientific-Research Institute of Livestock Breeding and Veterinary Science, Yerevan

USSR / Diseases of Farm Animals. Diseases Caused by
Protozoa

R

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 74219

Author : Mamikonyan, M.M.; Marutyan, Ye. M.

Inst : Armenian Scientific-Research Institute of Animal
Breeding

Title : Veterinary Medicine. Test of Combination Chemo-
therapy of Theileriasis (Theileria annulata) in
Cattle

Orig Pub: Byul. nauchno- tekhn. inform. Arm. n.-i. in-ta
zhivotnovodstva i veterinarii, 1957, No 1, 56-57

Abstract: A combination of amino-acrichine with geramine,
thiargen, sulfantrol and tripaflavine was tested.
Best results were obtained from use of a combina-

Card 1/2

M
YAMIKONYAN, M.M.:

"Gadily of livestock and the struggle against it. Erevan, Aipetrat, 1953. 20 pages with illustrations; price 20 kepeks; 2,000 copies. In Armenian.

SO: TABCON Veterinariya; Vol. 2¹; No. 2; February 19⁵⁴ Unclassified

MAMIKONYAN, M. M.

M. M. MAMIKONYAN, author of Gemosporidioznye zabolевания sel'skokhozyaystvennykh zhivotnykh i mery bor'by s nimi ("Haemosporidian Diseases in Farm Animals and Measures of Control) Yerevan, 1951. 52 pages. Price 90 kopecks. 3,000 copies. In the Armenian language.

SD: [REDACTED] Report U-4502; 28 August 1953. [REDACTED]

(From: NEW BOOKS ON VETERINARY MEDICINE Veterinariya, No. 11, pp. 63,64, Nov. 1951, Moscow, Russian mo per.)



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MAMIKONYAN N. [m.]

Teylerioz kruynogo rogatomo skota i mery br'by s nim. (Theliasis in Cattle
and Measures to Combat It). Erevan, "Armagiz", 1950, 12 pages. In the Armenian
language.

U-4258 30 Jul 1953, p 4

NAMIKONYAN, H. [In] & ANTONYAN, A. & MARKOSYAN, V.)

Sluchnova bolezn' loshadey i mery bor'by s ney (Breeding Disease of horses and Measures to Combat It). Erevan, "Armagiz", 1950, 6 pages with illustrations. In the Armenian language.

U-4258, 30 Jul 1953, p 4

MAMIKONYAN, M.I.

Changes in the blood coagulation and anticoagulation systems in experimental alloxan diabetes in dogs. Probl. endok. i gorm. 10 no.6; 101-104 N-D '64. (MIRA 18:7)

1. Kafedra patofiziologii Severo-Osetinskogo meditsinskogo instituta, Ordzhonikidze.

MAMIKONYAN, M.I.

Prothrombinogen. Probl. gemat. i perel. krovi 8 no. 6:30-31
Je'63 (MIRA 17:4)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. B.M. Brin) [deceased] Severo-Osetinskogo meditsinskogo instituta.

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MAMIKONYAN, L.G.

DYNAMOS

Extinguishing fire in turbogenerators with water. Rab. energ., 1, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

MAMIKONYAN, L. G.

Cand. Technical Sci.

"Application of Complex-Operational Circuit Diagrams z's and p's for Representing Transitional Processes,"

SO: Elektrichestvo, No. 4, 1949;

"Paralleling Synchronous Generators by the Self-Synchronization Method,"

SO: Elek. Stank., No. 9, 1949;

"Obtaining More Accurate Values for the Parameters of Synchronous Generators,"

SO: Elek. Stank., No. 11, 1949.

B

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKONYAN, L. G. PROCESSES AND PROPERTIES INDEX

R 64
C

312. The determination of the cross-reactance of synchronous machines by a stationary method without rotor turning. MAMIKONYAN, L. G. *Elect. St.* (No. 5) 32-3 (1948) *In Russian*.—Measurements are taken of the stator reactances of all three phases with the rotor stationary in any position. An analysis shows how, from these figures, the required reactance values can be derived. Comparison of figures obtained by this method and by rotor turning shows agreement within 3%.
H. G. M. S.

AMALIA METALLURGICAL LITERATURE CLASSIFICATION											
SECOND HALF ONLY ONE											
SEARCHED											
140069	P	J	I	H	G	F	E	D	C	B	A
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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKONYAN, K. G.

"Determination of Supertransition reactances of Synchronous Machines by the
Stationary Method Without Reversal of the Rotor,"

SO: Elek. Stank., No. 5, 1948.

Cand. Tech. Sci.

DZHANPOLADYAN, L.; SIMONOV, M.; AGADZHANYAN, G., akademik;
MANUKYAN, Kh.; MAMIKONYAN, K.; GABOYAN, M.; KURGINIAN, M.,
nauchnyy sotrudnik

Scientists and public workers train replacements. NTO 5 no.7:
10-19 JI '63. (MIRA 16:8)

1. Predsedatel' Armyanskogo respublikanskogo soveta nauchno-
tekhnicheskikh obshchestv (for Dzhapoladyan). 2. Predsedatel'
byuro po promyshlennosti komiteta obshchestvennoy aspirantury,
chlen-korrespondent AN Armyanskoy SSR (for Simonov). 3. Pred-
sedatel' byuro po sel'skomu khozyaystvu komiteta obshchestvennoy
aspirantury i AN Armyanskoy SSR (for Agadzhanyan). 4. Direktor
sovkhzo "Masis" (for Manukyan). 5. Nachal'nik tsekha Yerevan-
skogo khrompikovogo zavoda (for Mamikonyan). 6. Direktor
leninakanskogo zavoda "Strommashina" (for Gaboyan). 7. Institut
stroymaterialov i sooruzheniy (for Kurginyan).
(Armenia--Technical education)

MAMIKON'YAN, G., inzhener.

Device for repairing worn gantry crane turn rails. Mor.flot 17
no.19-20 Ja '57. (MIRA 10:3)

1. Molotovskiy morskoy port.
(Cranes, derrick~~s~~, etc.)

DUBINSKIY, Georgiy Petrovich; GURAL'NIK, Israilev Yosifovich;
MAMIKONOVA, Sof'ya Varianovna; KAROL', B.P., oty. red.;
SHTANNIKOVA, L.I., red.

[Meteorology] Meteorologiya. Leningrad: Gidrometeoizdat,
1965. 448 p. (MIRA 18;12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

DUBINSKIY, Georgiy Petrovich; GURAL'NIK, Izrail' Iosifovich; MAMIKONOVA,
Sof'ya Vartanovna; KAROL', B.P., otv.red.; MIROHENKO, Z.I.,
red.; BRAYNINA, M.I., tekhn.red.

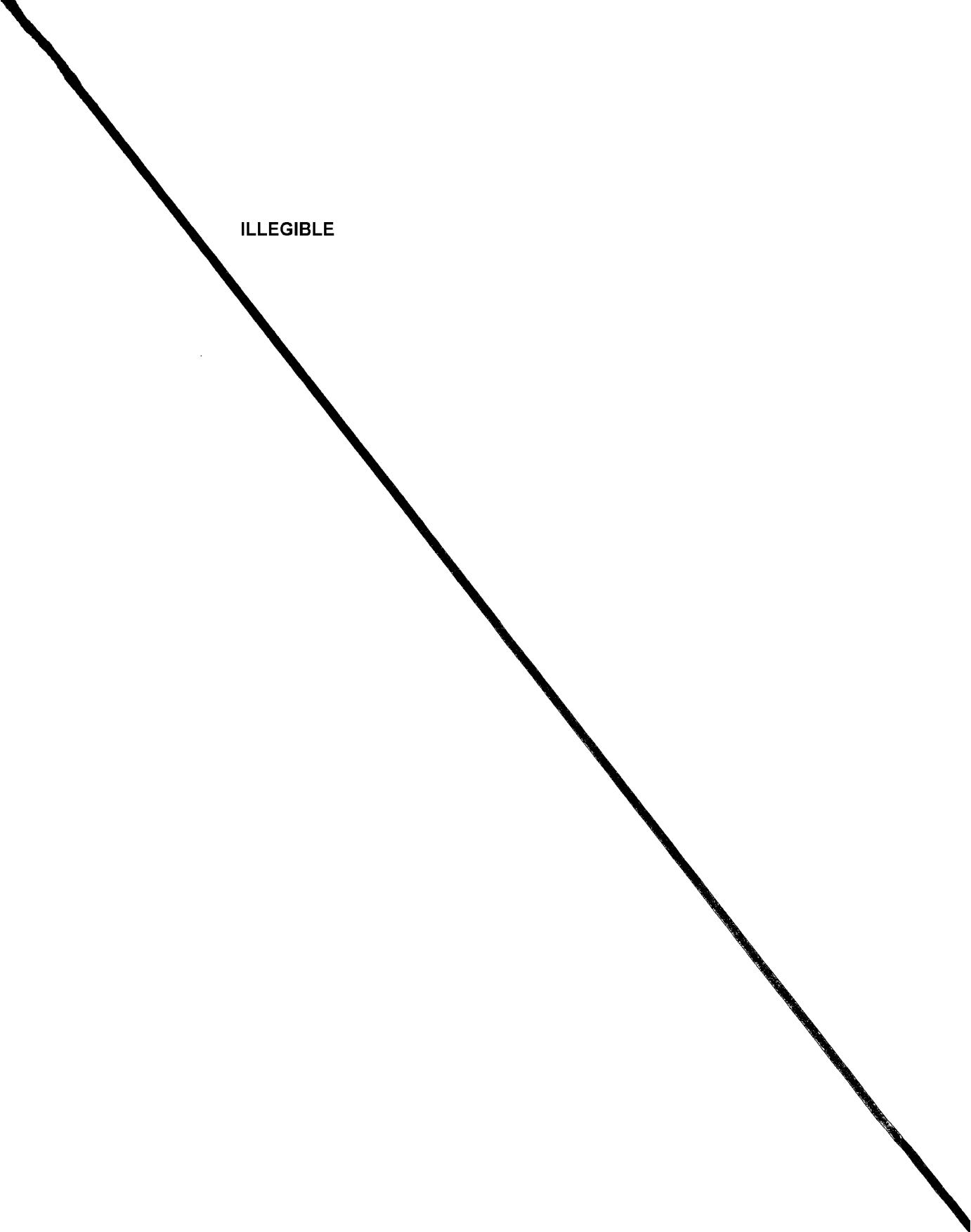
[Meteorology] Meteorologija. Izd.2., perer. i spr. Lenin-
grad, Gidrometeor.izd-vo, 1960. 454 p. (MIRA 14:1)
(Meteorology)

GURAL'NIK, Izrail' Iosifovich; MAMIKONOV, Sof'ya Vartanovna; POLKOVNIKOV, Maksim Andreyevich; KAROL', B.P., otv.red.; PISAREVSKAYA, V.D., red.; PROTOPOPOV, V.S., red.; FLAUM, M.Ya., tekhn.red.

[Problems in meteorology] Zadachnik po meteorologii. Lenigrad, Gidrometeor.izd-vo, 1959. 251 p. (MIRA 13:2)
(Meteorology--Problems, exercises, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

ILLEGIBLE



MAMIKONOV, Yu. G.

"Adhesion of High-Molecular Dielectrics." Cand Tech Sci, Moscow Power Engineering Inst, Min Higher Education USSR, Moscow, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

VARTANOV, Grayr Leonovich; SEREBRYAKOV, Viktor Mikhaylovich;
MANIKONOV, Yu.G., nauchn. red.; ZWORYKINA, L.N., red.

[Outdoor wiring and equipment installation operations]
Naruzhnye elekromontazhnye raboty. Moskva, Stroiizdat,
1964. 209 p.
(MIRA 17:5)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

ABASOV, I.T., kand.med.nauk; MAMIKONOV, M.G., kand.med.nauk

Serum protein fractions in vesical cancer. Urol. i nefr. 30
no.1:26-28 Ja-F '65. (MIRA 12:11)

1. Azerbaydzhanskiy institut rentgenologii, radiologii i onkologii
(direktor - prof. M.M.Alikishitekov), Baku.

LUR'YE, A.M., kand.med.nauk; MAMIKONOV, M.G., kand.med.nauk; RAMAZANOVA, L.A.;
ROZIN, D.L.

Bronchography, tomobronchography and bronchoscopy in the diagnosis
of primary pulmonary cancer. Azerb. med. zhur. no.9:54-61 S '61.
(MIRA 14:9)

1. Iz'Azerbaydzhanskogo nauchno-issledovatel'skogo instituta rent-
genologii i radiologii (direktor - dotsent M.M.Alikishibekov).
(LUNGS-CANCER) (BRONCHI-RADIOGRAPHY)
(BRONCHOSCOPY)

NADZHAROV, A.G., kand.med.nauk (Baku, ul. Pervomayskaya, d.241, kv.24)
MAMIKONOV, M.G., kand.med.nauk

Six cases of pancreatic cysts. Nov.khir.arkh. no.3:90-92 My-Je '58.
(MIRA 11:9)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut rentgenologii
i radiologii.

(PANCREAS--TUMORS)
(CYSTS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKONOV, M. G.
Azerbaijhan State Medical Inst.

MAMIKONOV, M. G. - "Anatomical-functional changes in the urinary tract in cases of cancer of the cervix uter." Azerbaijhan State Medical Inst. Baku, 1956.
(Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis' No. 20, 1956

BRETANITSKIY, L.; KRUPKIN, E.; MAMIKONOV, L.

Fourteenth-century mausoleum in Agdam District. Dokl.AN
Azer.SSR 15 no.8:755-762 '58. (MIRA 13:1)

1. Institut arkhitektury i iskusstva AN AzerSSR. Predstavлено
академиком AN AzerSSR M.A.Useynovym.
(Khachindorbatly--Sepulchral monuments)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKONOV, A.G.; KOMKOV, N.I.

Volumes of information in the existing forms of accounting in
petroleum production enterprises. Neft. khoz. 42 no. 5:54-58
My '64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

KEL'MANS, A.K. (Moskva); MAMIKONOV, A.G. (Moskva)

Construction of structures of information transmission systems,
optimal in their reliability. Avtom. i telem. 25 no.2:207-212
F '64. (MIRA 17:4)

L-1102-SD-S3 MFTL 17/FCC (w)/SRS/ES (t)-2 AFMTC/APOC/ASD Pp-L/Pb-L/Pk-L/

ACCESSION NO.: AP500109 | 9/9103/63/024/016/0015/0019

AUTHOR: Vasil'kov, A. G. (Moscow); Slatova, T. I. (Moscow)

1. Error-correcting codes with a multicharacter alphabet in frequency-type communication systems.

SCHMIN: Avtomatika i telemekhanika, v. 24, no. 6, 1963, 815-819

TOPIC TAGS: error-correcting codes, frequency-type telemetering

ABSTRACT. Large capacities of coded frequency-combination systems permit using some methods for detecting and correcting errors in code transmission. Types of code-transmission distortions are considered. Arrangement of code points is analyzed for the case when the possible code elements form a sequence. With a known number of errors to be detected or corrected, the space is determined in which the assigned number of useful code combinations can be placed (geometrical interpretation of codes). A formula is offered which supplies the exact number of permitted combinations or their minimum. Orig. art. has: 1 figure and 14 formulas.

ASSOCIATION: 1948

Card 1/4

GRACHEV, Yury Vasil'yevich; VARLAMOV, Vladimir Pavlovich; MAMIKONOV,
A.G., kand. tekhn. nauk, red.; ISAYEVA, V.V., ved. red.;
POLOSINA, A.S., tekhn. red.

[Automatic control in wells during drilling and exploitation] Avtomaticheskii kontrol' v skvazhinakh pri burenii i ekspluatatsii. Moskva, Gostoptekhizdat, 1963. 233 p.

(MIRA 16:6)

(Petroleum production) (Automatic control)

GESHELIN, M.G. (Moskva); LEVIN, B.M. (Moskva); MAMIKONOV, A.G. (Moskva)

Industrial SRP-3 remote control system. Avtom.i telem. 22 no.7;
950-953 Jl '61. (MIRA 14:6)
(Remote control)

MAMIKONOV, Akop Gasparovich; GESHELIN, Mikhail Georgiyevich;
PEREVERZEV, V.V., red.; POLOSINA, A.S., tekhn. red.

[Remote control in the oil and gas industries] Telemekhanika
v neftianoi i gazovoi promyshlennosti. Moskva, Gos.nauchno-
tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 359 p.

(MIRA 15:2)

(Oil fields--Communication systems)
(Gas, Natural) (Remote control)

SINEL'NIKOV, A.V., ISAKOVICH, P.Ya., MAMIKONOV, A.G.

Principles for complete automation and remote control in
petroleum production enterprises. Neft. khoz. 38 no. 61-6 '60.

(Oil fields--Production methods) (Automatic control)
(Remote control)

(MIRA 13:7)

Position and Prospects in the Development of
Telemechanics

S/030/60/000/01/060/067
B015/B011

factories and mines, and in irrigation. The production of the telemechanic devices has been extended and is to be increased by the 12fold in the forthcoming seven years. The devices are tested on the first telemechanized gas conduit of the Soviet Union Shchokino-Moscow under operational conditions, with powerful shut-off valves being operated from a distance of 235 km. The development of the theory of contactless elements and of the telemechanic systems based on them, and the creation of scientific foundations for future teleautomatic systems is in arrears both in the Institut avtomatiki i telemekhaniki Akademii nauk SSSR (Institute of Automatics and Telemechanics of the Academy of Sciences of the USSR) and at the Academies of Sciences of the Union Republics and the scientific branch research organizations. The introduction of telemechanics is now obstructed by the shortage of apparatus. The Conference showed that the volume of theoretical research and practical elaboration of telemechanics in the Soviet Union is insufficient and should be considerably increased.

Card 2/2

28 (1)

AUTHORS:

Il'in, V. A., Doctor of Technical Sciences, Mamikonov, A. G., Candidate of Technical Sciences

S/030/60/000/01/060/067
B015/B011

TITLE:

Position and Prospects in the Development of Telemechanics

PERIODICAL:

Vestnik Akademii nauk SSSR, 1960, Nr 1, pp 110 - 113 (USSR)

ABSTRACT:

The authors describe the course of the scientific-technical conference on telemechanics held in Moscow from November 16 to 21, 1959. The Conference had been convened by the Akademiya nauk SSSR (Academy of Sciences of the USSR) and the Gosudarstvennyy nauchno-tehnicheskiy komitet Soveta Ministrov SSSR (State Scientific-technical Committee of the Council of Ministers of the USSR), and was attended by delegates of the industry, scientific research institutes, design offices, and universities. The numerous and miscellaneous lectures showed the important progress made by scientific research in the field of telemechanics and its practical application in the last years. Unlike former times, when power economy was regarded as the chief field of application, the facilities offered by telemechanics today are introduced to an ever greater extent in the petroleum and gas industry, the railroad transportation, large

Card 1/2

Radio-dispatching in the Petroleum Industry

SCV/152-59-2-25/32

ASSOCIATION: Institut avtomatiki i telemekhaniki AN SSSR (Institute
of Automatic Devices and Telemechanics)

SUBMITTED: November 25, 1958

Card 4/4

Radio-dispatching in the Petroleum Industry

SCV/152-59-2-25/32

in keeping with the kind of objects in question, to a) have receivers switched on continuously, b) switch them on at intervals, and automatically, c) switch them on for a limited time after any signal is transmitted to the control room, d) switch them on by means of a simplified "call" apparatus, or e) have no receivers in the various objects. The latter is possible when neither orders to the individual objects nor questions on the part of the individual objects are necessary, and when it is made sure that all signals are received easily in the control room. Following the investigations of the technical data and the efficiency of the various systems carried out by the provisional commission for the automation of petroleum production under the supervision of V. A. Il'in, Doctor of Technical Sciences, the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers USSR) has recommended the following systems: system SRP-1 for individual objects, and system SRP-3 for groups.

Card 3/4

Radio-dispatching in the Petroleum Industry

SOV/152-59-2-25/32

serially produced by the Soviet radio industry are used. On the basis of the investigations carried out it is recommended for centralized objects which are few in number and are used for frequent and lengthy communication to develop their own systems on individual carrying frequencies. This is provided in the system SRP-3 developed by the KBAT jointly with the IAT and IN AN USSR. With decentralized objects it is advisable to subdivide them into individual groups and to establish independent communication channels - individual carrying frequencies - for each group. The number of groups will then have to be determined in such a way as to avoid a possible overlapping of signals within the groups. Also the number of apparatus in the control room should be as small as possible. A subdivision of objects into groups is done in the system SRP-1, which was developed by the IAT AN USSR together with the KBAT, as well as in the system of the plant "Geofizika". The method used by all systems is that of having the transmitter operative for the time of transmission of signals only while the control room is switched on all the time. With regard to receivers it may be decided,

Card 2/4

6(4)

AUTHOR:

Mamikonov, A. G.

SOV/152-59-2-25/32

TITLE:

Radio-dispatching in the Petroleum Industry (Radiodispetcherizatsiya neftyanykh promyslov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i Gaz,
1959, Nr 2, pp 93 - 98 (USSR)

ABSTRACT:

In recent times seven different systems of radio-dispatching in the petroleum industry have been developed in the USSR. This number points to the great initiative of collectives and individuals, but impedes serial production and their introduction on a large scale into the different plants. For this reason it is here endeavoured to spotlight the systems best suited for different types of enterprises. In the systems used in the USSR transmitting and receiving stations are employed which guarantee sure and trouble-free communication in the ultra-shortwave range. In the systems of the Kazanskiy gosudarstvenny universitet (Kazan' State University) and Taganrogskiy radiotekhnicheskiy institut (Taganrog Radiotechnical Institute) radio stations developed within the university or institute are used. In other systems radio stations

Card 1/4

ISAKOVICH, Roman Yakovlevich; MAMIKONOV, A.G., dotsent, kand.tekhn.nauk,
retsenzent; GOR'KOVA, A.A., vedushchiy red.; TROFIMOV, A.V.,
tekhn.red.

[Instruments and automation of petroleum production] Kontrol'
i avtomatizatsiya dobychi nefti. Moskva, Gos.suchno-tekhn.
izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 398 p.

(Oil fields--Production methods)
(Automatic control)

(MIRA 13:1)

KREMS, N.K.; MAMIKONOV, A.G.

Present status and problems in the development of automation in
oil production. Neft. khoz. 36 no.5:9-13 My '58. (MIRA 11:6)
(Automation) (Oil fields--Equipment and supplies)

GEYMAN, M.A.; MAMIKONOV, A.G.

Radio dispatching systems used in oil fields. Biul. tekhn.-ekon.
inform. no. 4:9-11 '58. (MIRA 11:6)
(Oil fields) (Signals and signaling)

Automation in the Oil Fields 1100

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Automation in the Oil Fields 1100

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Instruments controlling the drilling process	12
Automatic control of bit feed	13
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Automation in Petroleum Production

Outline of principal methods of petroleum production	27
Automatic pump removing petroleum from a gaging tank	32
Automatic deparaffinization of oil wells	36
Automatic control of pressure wells	37
Automatic control of deep pump operation	40
Automation of periodic exploitation of oil wells	42
Automation of tool sinking and lifting operations in oil well overhauling	44
Automatic and remote control of shutoffs	47
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Card 2/3

PHASE I BOOK EXPLOITATION 1100

Mamikonov, Akop Gasparovich

Avtomatizatsiya neftepromyslov (Automation in the Oil Fields) Moscow, Izd-vo AN SSSR, 1958. 65 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya) 5,000 copies printed.

Resp. Ed.: Mezin, I.S.; Ed. of Publishing House: Prokof'yeva, N.B.; Tech. Ed.: Ryolina, Yu.V.

PURPOSE: This popular pamphlet is intended for oilfield personnel engaged in oil well drilling and oil production.

COVERAGE: The author describes various methods of petroleum production, the control of the petroleum extraction process, and different aspects of automation introduced in oil well drilling and oil production. Various equipment, tools and instruments used in drilling and petroleum production are outlined and illustrated. The pamphlet contains 12 figures. There are 16 references of which 10 are Soviet and 6 English.

Card 1/3

MAMIKONOV, A.G.

GETMAN, M.A.; MAMIKONOV, A.G.; MUSINOV, V.I.

Selecting parameters for controlling and managing oil field
operations. Neft.khoz. 35 no.3:18-22 Mr '57. (MLRA 10:4)
(Oil fields)

Mamikonov, A. G.

AUTHOR:

Mamikonov, A. G.

93-5-17/19

TITLE:

Automation of Oil Fields Abroad (Automatizatsiya
neftepromyslov za rubezhom)

PERIODICAL: Neftyanoye Khozyaystvo, 1957, Nr 5, pp. 63-67 (USSR)

ABSTRACT:

The author gives a brief review of several articles which appeared in various issues of The Oil and Gas Journal, Producers Monthly and The Petroleum Engineer. The articles dealt with various devices, equipment and principles underlying certain automatic processes, like, for example, periodic production of wells, measurement of well output, break of emulsions and removal of water and sediments, maintenance of fluid level in the wells and tanks, automatic tank filling and emptying to measure gross oil volume, safety devices to shut in the well in the event of a power failure or malfunction of equipment, and supersonic flow gages. There are 2 diagrams and 6 U. S. references.

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Card 1/1

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MAMIKONOV, A.G.

Determining the apparent volumetric capacity of rock specimens.
Trudy Inst.nefti 7:217-221 '56. (MIRA 10:1)
(Volumetric analysis) (Petroleum engineering)

USSR/Geology - Petroleum

FD-2933

Card 1/1 Pub. 41-14/17

Author : Geyman, M. A., Shneyerson, V. B. and Mamikonov, A. G., Moscow

Title : The effect of pressure on the change in wettability of minerals
within the oil bearing strata

Periodical : Izv. AN SSSR, Otd. Tekh. Nauk 6, 127-139, June 1955

Abstract : Determines the importance of knowing the wettability of oil
bearing strata, under varied pressures, for maximum extraction
of oil by water pressure. The water is pumped into the oil
bearing strata and displaces and also washes out the oil from
the minerals for possible recovery. It is concluded that the
amount of natural pressure present within the strata has a
definite effect on wettability and extraction of oil. Diagrams,
graphs. Fifteen references, all USSR.

Institution : Institute of Petroleum, Academy of Sciences USSR

Submitted : November 13, 1954

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

GEYMAN, M.A.; MAMIKONOV, A.G.

Use of electroosmotic action in petroleum engineering. Trudy Inst.
nefti no.5:138-144 '55. (MIRA 8:12)
(Electroosmosis) (Oil well logging, Electric)

USSR/Engineering - Electrical

FD-2998

Card 1/1 Pub. 41 - 11/12

Author : Mamikonov, A. G., Moscow

Title : Measuring the electrical resistance of water and solutions

Periodical : Izv. AN. SSSR. Otd. Tekh. Nauk, 3, 154-159, March 1955

Abstract : Describes the methods used in determining the coefficient of resistance of liquids and solutions. Points out the possibility of error due to presence of solid particles in the solution. States that the method of measuring the resistance of liquids is invaluable in determining the degree of extraction of oil from wells. Diagrams, graphs, tables.

Institution : Institute of Petroleum, Academy of Sciences, USSR

Submitted : November 18, 1954

May 20, 1963,

Effects of pressure on the wettability of oil-bearing mineral surfaces. M. A. Tsvetkov, V. B. Smirnov, and A. G. Moshchukov (Fersman Inst., Acad. Sci. U.S.S.R., Moscow, Akad. Nauk SSSR, Odz. Tikh. Nauk, Moscow, 1961, p. 17-20). The wettability at the N interface of calcite treated with toluene and with some oil solvents in various organic solvents is changed only to a small extent at pressures up to 100 kg./sq. cm. At higher pressures it drops to a value below that for atm. pressure at a pressure of 200-300 kg./sq. cm. Oil-solvent extracts, treated similarly in CO₂, can reduce wettability max. at 40-60 kg./sq. cm. pressure. Treatment with toluene alone, reduces the wettability at the N and CO₂ interfaces on application of pressure and no max. is observed.

W. M. Stigand

(2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKONOV, A.G.

Automatic recording of curves in electrical core sampling of
oil wells. Trudy Inst. nefti 3:248-257 '54. (MLRA 8:6)
(Oil well logging, Electric)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001032000003-6

MAMIKHIN, M.I., inzhener.

Screen grate and inclined headframe for pipelines of an irrigation network.
Gidr. i mel. 5 no. 6:61-65 Je '53.

(MLRA 6:7)
(Irrigation)

BABAYAN, Kh.P.; BOYADZHYAN, N.G.; GRIGOROV, N.L.; MAMIDZHANYAN, E.A.;
TRETYAKOVA, Ch.A.; SHESTOPEROV, V.Ya.

Study of "young" high-energy electron-photon air showers.
Zhur. eksp. i teor. fiz. 46 no. 5; 1525-1539 My '64.

(MIRA 17:6)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo
universiteta i Institut fiziki Gosudarstvennogo komiteta po
ispol'zovaniyu atomnoy energii SSSR, Yerevan.

I 4463-66

ACC NR: AP5024625

tances up to 10 meters from the calorimeter, recorded the showers accompanying the nuclear active particle. Events were selected in which a single nuclear-active particle traversed the ionization calorimeter unaccompanied by a shower of more than 10^3 particles, and 109 such events were observed in which the energy of the nuclear-active particle exceeded 5×10^{11} eV. The counting rate was 0.32 particles/ m^2 sterad hour and was independent of whether a 60 g/cm^2 graphite absorber was present or absent. The exponent in the integral energy spectrum of solitary nuclear-active particles in the atmosphere was found to be approximately 2.5 for energies between 5×10^{11} and 10^{13} eV. This exponent is considerably greater than that in the energy spectrum of the primary cosmic rays at the top of the atmosphere, and it is suggested that the difference is due to an energy dependence of the interaction mean free path. It is shown that the data are consistent with an interaction free path of 102 g/cm^2 at 10^{11} eV and 72 g/cm^2 at 10^{13} eV. Orig. art. has: 6 formulas, 2 figures, and 1 table.

SUB CODE: NP/ SUBM DATE: 00/ ORIG REF: 008/ OTH REF: 001

PC
Card 2/2

L 4465-66 EWT(1)/EWP(e)/EWT(m)/EPF(c)/EWP(1)/FCC/T/EWP(b)/EWA(m)-2/EWA(h)

ACC NR: AP5024625 WH/GW/WH

SOURCE CODE: UR/0048/65/029/009/1652/1655
33
37
38

AUTHOR: Babayan, Kh. P.; Grigorov, N.L.; Mamidzhanyan, E.A.; Sobinskyov, V.A.; Shestoporov, V. Ya.

ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M.V. Lomonosov (Nauchno-issledovatel'skiy institut Yadrenoy fiziki Moskovskogo gosudarstvennogo universiteta); Physics Institute of the State Committee on Use of Atomic Energy, SSSR (Fizicheskiy institut Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR)

TITLE: Investigation of interactions of particles with energies of the order of one TeV by the ionization calorimeter technique /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1652-1655

TOPIC TAGS: primary cosmic ray, secondary cosmic ray, energy distribution, air shower, nucleon interaction

ABSTRACT: The authors have employed the 10 m^2 ionization calorimeter described in the preceding article (Izv. AN SSSR Ser. fiz., 29, 1648, 1965 / see Abstract ACC NR AP5024624/) to determine the energy spectrum at 3200 meters above sea level of single nuclear-active particles in the cosmic radiation. A hodoscope consisting of 200 Geiger-Muller counters and several scintillation and Cerenkov counters, located at dis-

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0401033

ACCESSION NR: AP4024683

"Some Generalizations," Bell Syst. Techn. J., v. 36, no. 6, 1957), which, in fact, is an orderly sequential test of all paths for each point, resulting in the linking of each point with the pole O by the shortest way. A 7-point-and-pole complete graph is used to illustrate application of the algorithm. Orig. art. has 7 figures, 7 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 18Jan63

DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: EC, DP

NO REF SOV: 002

OTHER: 002

Card 2/2

ACCESSION NR: AP4024683

8/0103/64/025/002/0207/0212

AUTHOR: Kel'mans, A. K. (Moscow); Mamikonov, A. G. (Moscow)

TITLE: Synthesizing optimum-reliability information-transmission structures

SOURCE: Avtomatika i telemekhanika, v. 25, no. 2, 1964, 207-212

TOPIC TAGS: automatic control, link system, communication link system, optimum reliability link, optimum reliability network, information transmission system

ABSTRACT: The problem of synthesizing a link structure (network) having an optimum reliability when the mean losses caused by link and apparatus faults are taken as a reliability criterion is theoretically considered. The apparatus reliability is considered constant; hence, the information-system reliability depends on the reliability of the link structure only. An algorithm is formulated (differing slightly from that of P. K. Prim, "Shortest Connection Networks and

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ACCESSION NR: AP4037561

energy particles and the air atoms. The energy spectrum and the absolute intensity of the young air showers can be explained by assuming that they are generated in interactions in which the electron-photon component of the shower receives 60--70% of the energy of the generating particle and the effective multiplicity of the γ quanta which carry away this energy is low. The probability of such interactions is less than 0.25. The absorption range of the nuclear component was found to be $109 \pm 8 \text{ g/cm}^2$, corresponding to an average inelasticity coefficient 0.5, if the interaction range is 80 g/cm^2 or 0.6 if the interaction range is 90 g/cm^2 . Orig. art. has: 4 figures, 9 formulas, and 3 tables.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Nuclear Physics Institute, Moscow State University); Institut fiziki GKAE, Yerevan (Institute of Physics GKAE)

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NR REF SOV: 009

OTHER: 001

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ACCESSION NR: AP4037561

component of high energy is generated not far above the measuring apparatus. The measurements were made at 3200 meters above sea level, and the young air showers were found to have an energy distribution of the form

$$N(\geq E) = A(10^{12}/E)^\gamma,$$

with

$$A = (3.0 \pm 0.2) \times 10^{-9} \text{ cm}^{-2} \text{ sec}^{-1}; \gamma = 1.69 \pm 0.08$$

for showers in which more than 60% of the energy is concentrated in a circle of radius 70 cm, and

$$A = (1.20 \pm 0.11) \times 10^{-9} \text{ cm}^{-2} \text{ sec}^{-1}; \gamma = 1.87 \pm 0.17$$

for showers in which more than 60% of the energy is concentrated in a circle of radius 30 cm. Neither of the form of the spectrum nor the absolute intensity agree with the assumption that young air showers are produced in interactions between the nuclear-active high-

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ACCESSION NR: AP4037561

S/0056/64/046/005/1525/1539

AUTHORS: Babayan, Kh. P.; Boyadzhyan, N. G.; Grigorov, N. L.; Mamidzhanyan, E. A.; Tret'yakova, Ch. A.; Shestoporov, V. Ya.

TITLE: Study of "young" electron photon air showers of high energy

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1525-1539

TOPIC TAGS: young air shower, electron photon air shower, particle energy distribution, air shower absolute intensity, primary particle energy, absorption range, inelasticity coefficient

ABSTRACT: To ascertain whether the large momentum transfer to neutral pions, occurring when nuclear-active particles interact with lead, occurs also when these particles interact with light nuclei, an investigation was made of the characteristics of the electron-photon component of "young" air showers with energy $E > 1.7 \times 10^{12}$ eV. Young showers are defined as those in which the electron-photon

BABAYAN, Kh.P.; GRIGOROV, N.L.; MAMIDZHANYAN, E.A.; SHESTOPEROV, V.Ya.

Height dependence of high-energy nucleons in the atmosphere.
Dokl. AN Arm. SSR 38 no.2:101-104 '64. (MIRA 17:4)

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